INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2005/000195

CLASSIFICATION OF SUBJECT MATTER PC 7 F16H57/02 B60 B60K17/16 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) F16H B60K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 5 951 431 A (DOWNS ET AL) 1-14 X 14 September 1999 (1999-09-14) figures 1-7,9 X DE 101 41 995 A1 (JOHANN HAY GMBH & CO. KG 1 - 14AUTOMOBILTECHNIK) 3 April 2003 (2003-04-03) figures 1,2,5,7,8 WO 89/10501 A (SAAB-SCANIA AKTIEBOLAG) X 1-14 2 November 1989 (1989-11-02) figure 1 US 3 901 103 A (HUFSTADER ET AL) 26 August 1975 (1975-08-26) Х 1-14 figure 1 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents : "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance oited to understand the principle or theory underlying the invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled *O* document referring to an oral disclosure, use, exhibition or other means in the art. *P* document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 03/06/2005 19 May 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Szodfridt, T Fax: (+31-70) 340-3016

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2005/000195

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Х,Р	EP 1 433 978 A (KABUSHIKI KAISHA ONDO KOUSAKUSYO) 30 June 2004 (2004-06-30) figures 3-5,7,8	1-14	
x	JP 58 144141 U (MITSUBISHI JISHODA KOGYO KABUSHIKI KAISHA) 28 September 1983 (1983-09-28) cited in the application figures 2,6	1-14	
	·		
	•		
	•		
ĺ			
	•		

INTERNATIONAL SEARCH REPORT

. Information on patent family members

International Application No PCT/182005/000195

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5951431	14-09-1999	CA 2236704 A1 DE 19820206 A1 JP 11030315 A	06-11-1998 12-11-1998 02-02-1999
DE 10141995	1 03-04-2003	EP 1288531 A2	05-03-2003
WO 8910501	02-11-1989	SE 459034 B DE 68913541 D1 DE 68913541 T2 EP 0427728 A1 JP 3505904 T WO 8910501 A1	29-05-1989 07-04-1994 18-08-1994 22-05-1991 19-12-1991 02-11-1989
US 3901103	26-08-1975	NONE	
EP 1433978	30-06-2004	WO 2004013519 A1 EP 1433978 A1 US 2005070394 A1	12-02-2004 30-06-2004 31-03-2005
JP 58144141	28-09-1983	JP 62007012 Y2	18-02-1987